

Project 2: Hospital System

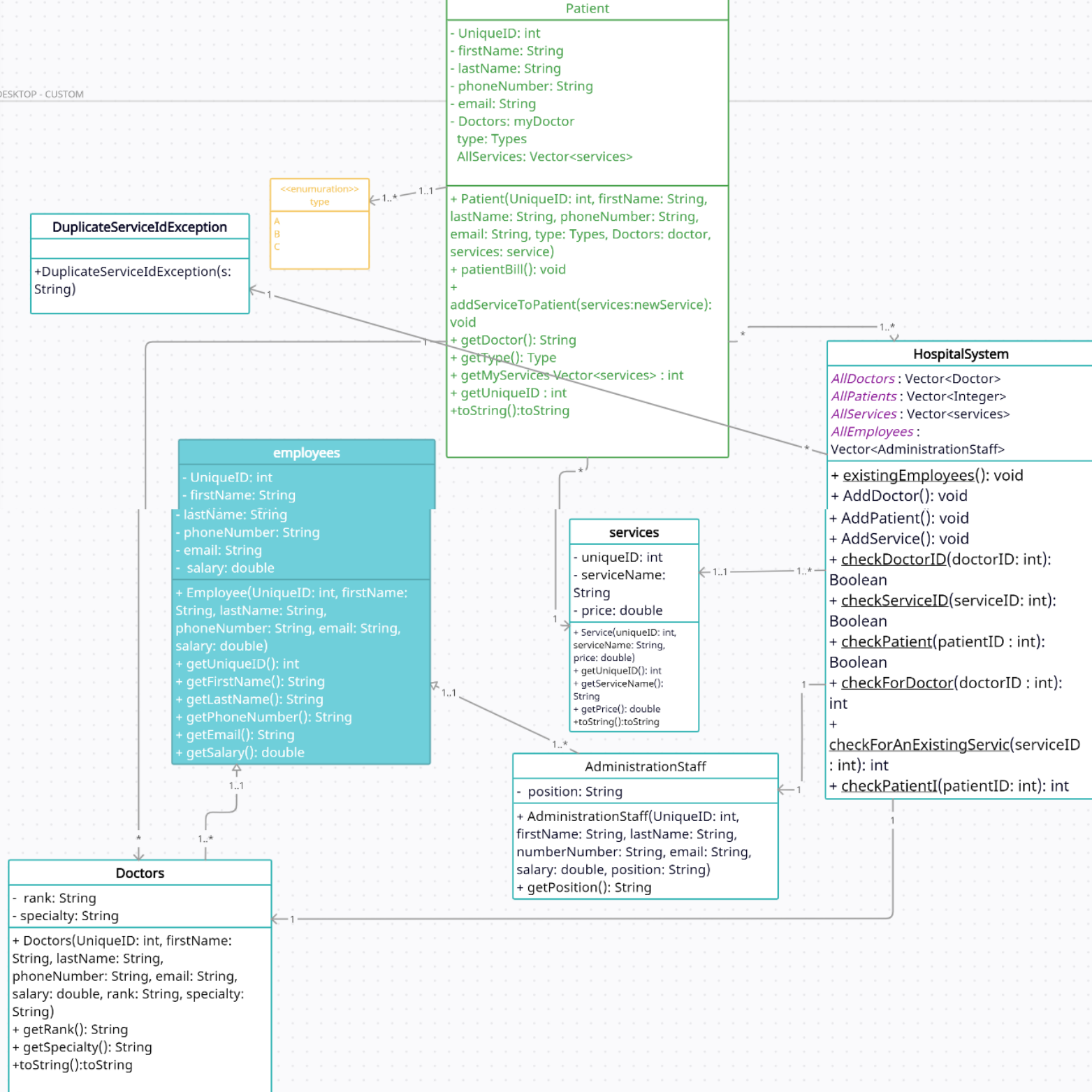
Student's:

Ammar Hussain Ahmed

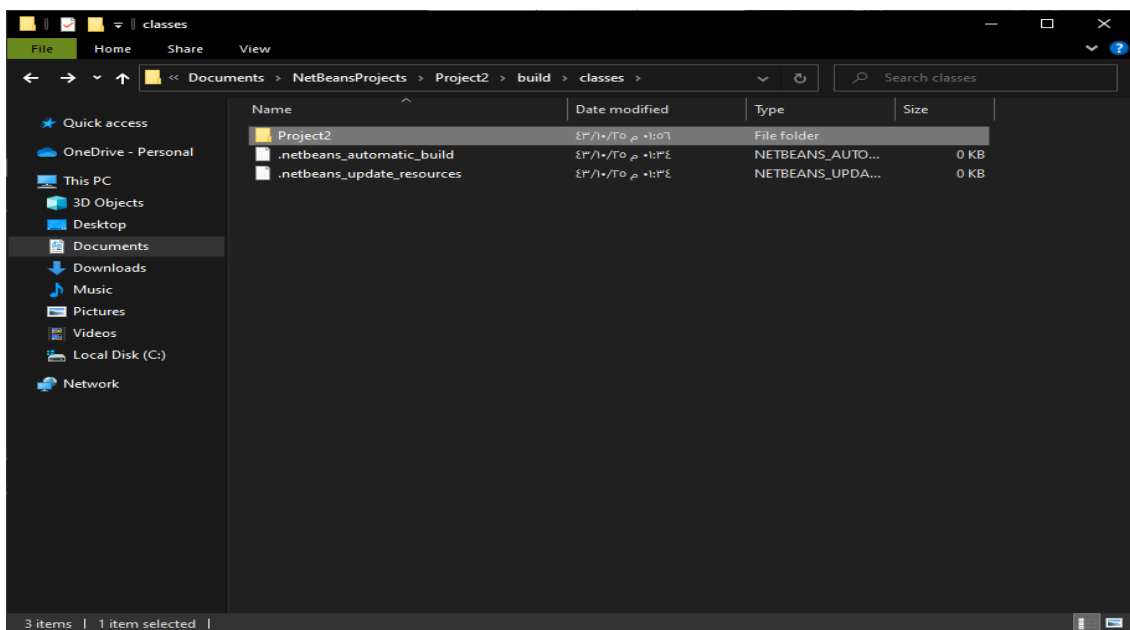
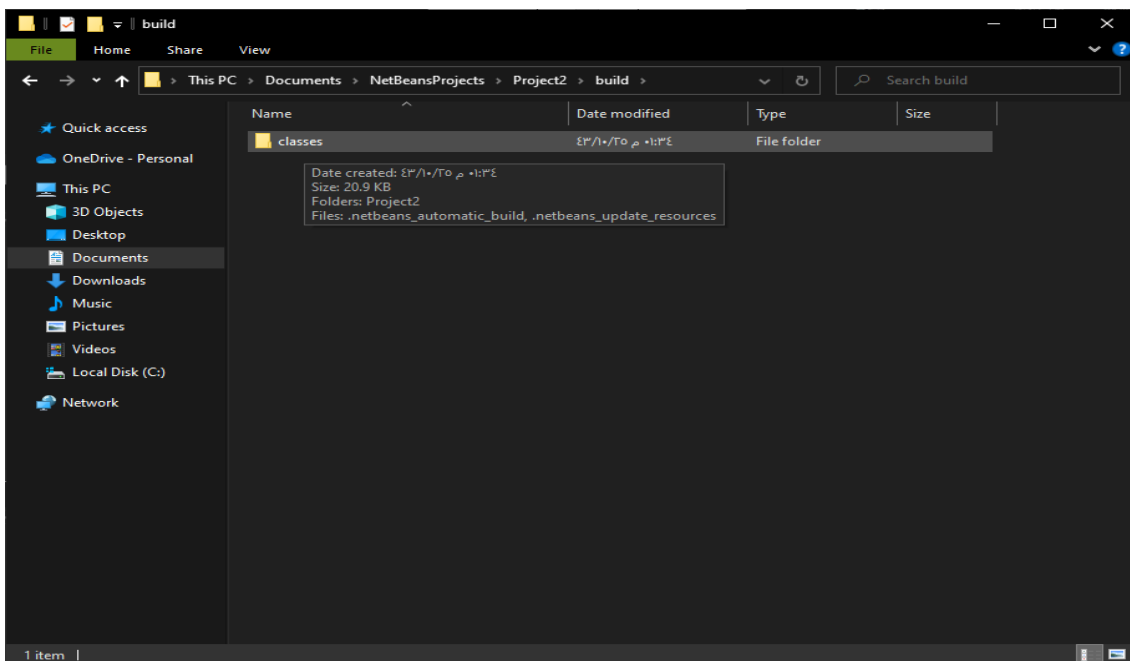
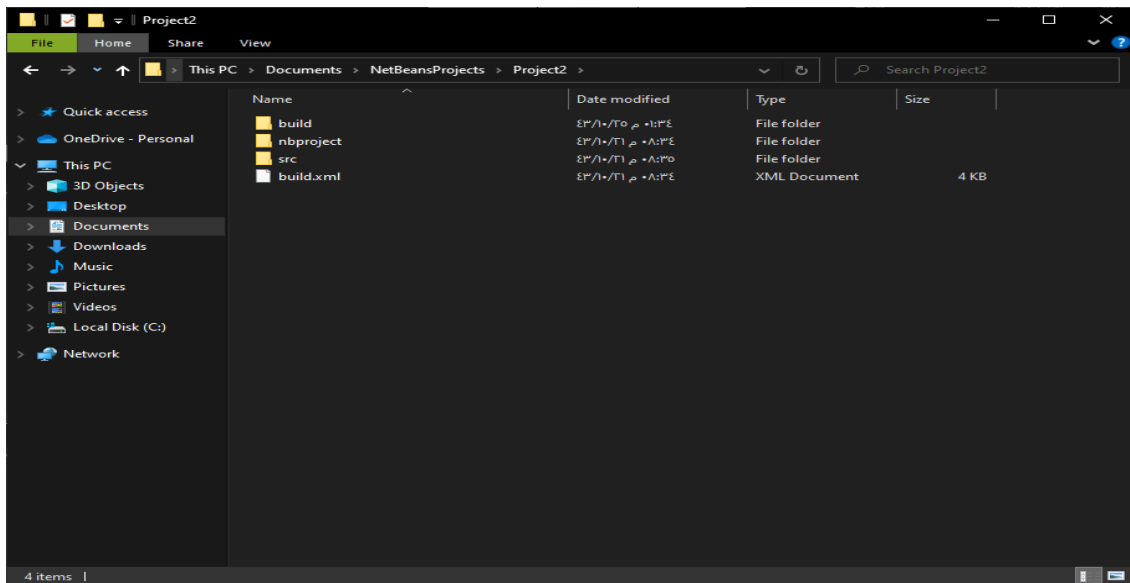
Ammar Ibrahim Fallatah

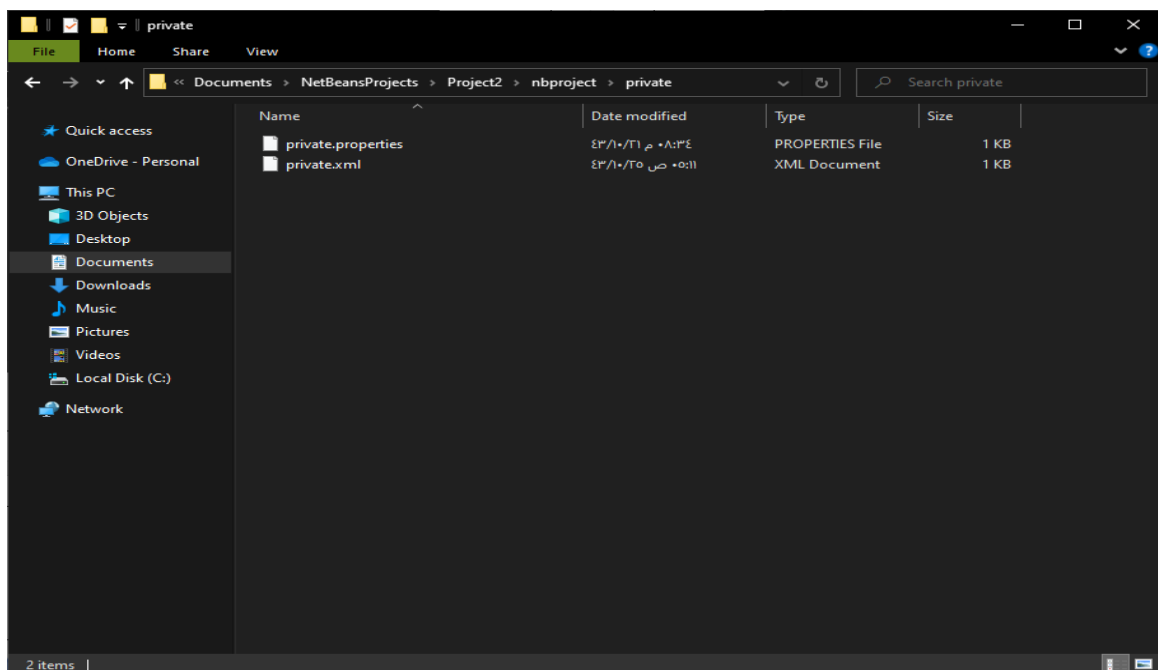
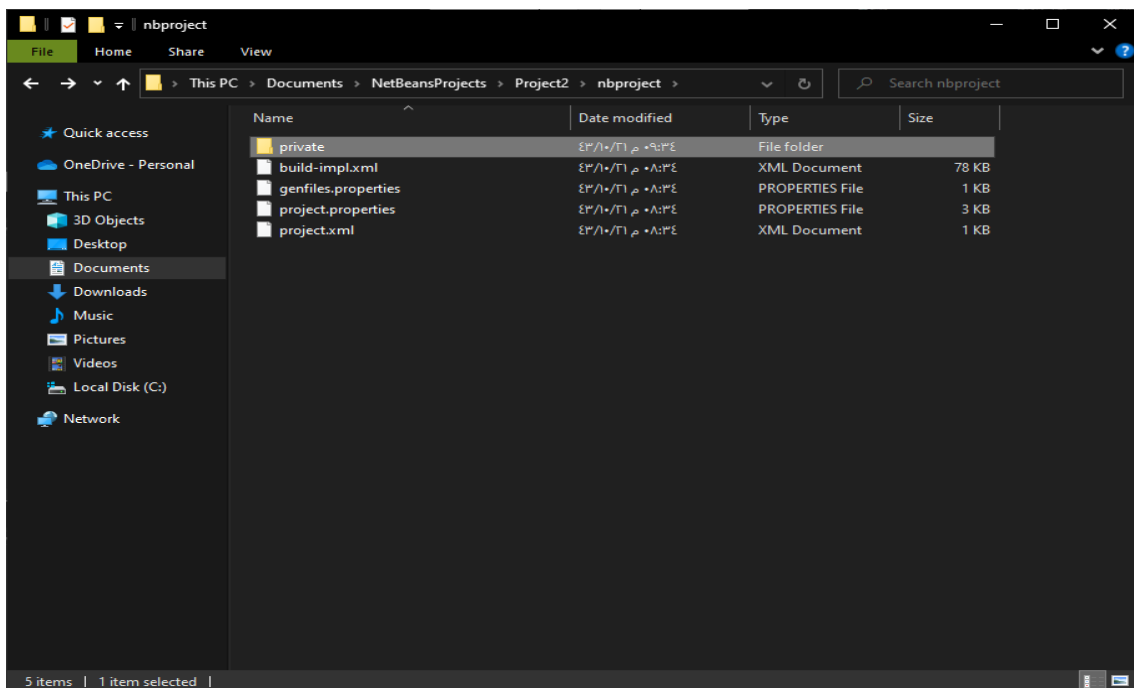
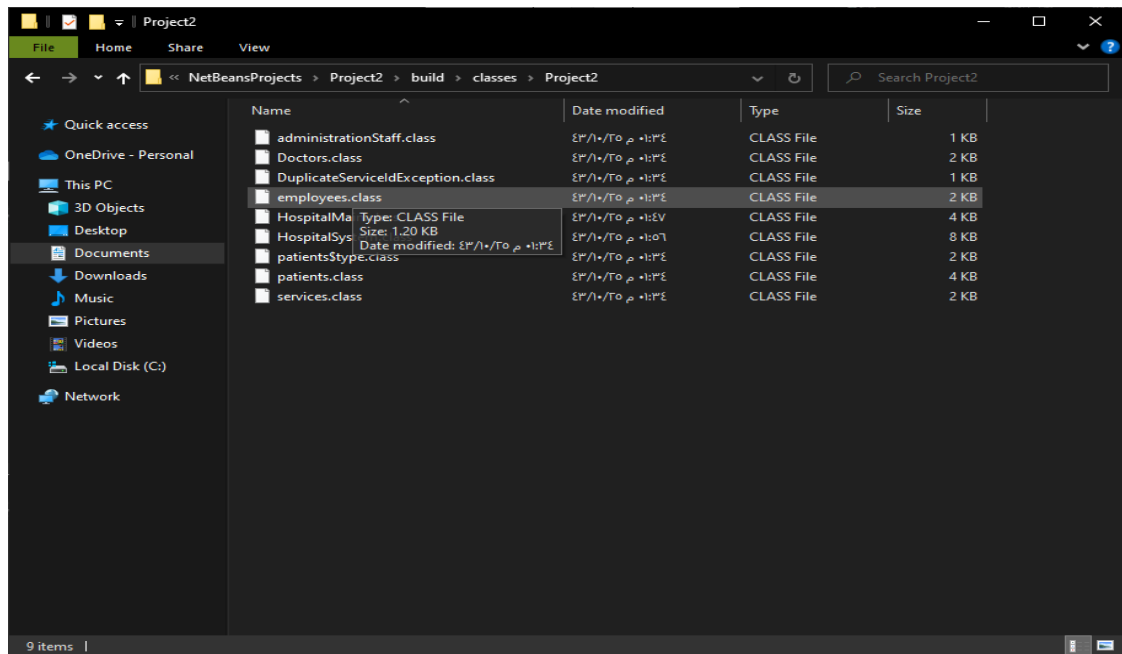
Subject's Instructor:

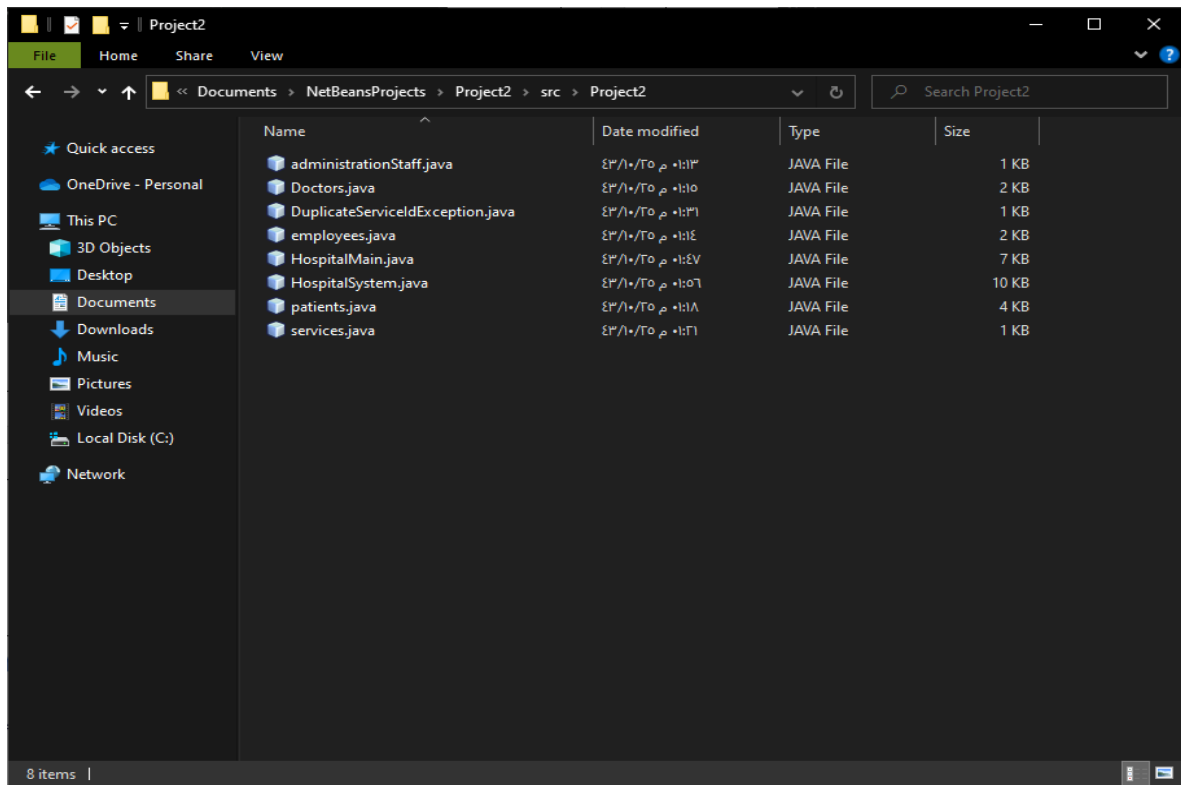
Dr. Mohamed Ahmed



Screenshots from the folder structure







All the possible outputs

When the user enter an existing last name

```
run:
*****
*           Welcome to Our  Hospital System           *
*   Student #1: Ammar Hussain Ahmed, 441017869         *
*   Student #2: Ammar Ibrahim Fallatah, 442014605       *
*****
Enter your last name (to use the system) :
ahmed
Welcome!
```

When the user enter a last name that does not exist

```
run:
*****
*           Welcome to Our  Hospital System           *
*   Student #1: Ammar Hussain Ahmed, 441017869         *
*   Student #2: Ammar Ibrahim Fallatah, 442014605       *
*****
Enter your last name (to use the system) :
ali
Enter your last name (to use the system) :
Error : Wrong Name!! , Please Try Again
|
```

Main menu and list of options the user can choose from

```
run:
*****
*           Welcome to Our  Hospital System           *
*   Student #1: Ammar Hussain Ahmed, 441017869         *
*   Student #2: Ammar Ibrahim Fallatah, 442014605       *
*****

Enter your last name (to use the system) :
ahmed
Welcome!

Please Enter a number of your choice (enter 9 to exit)
-----
1. Add a doctor
2. Add a service
3. Add a patient
4. Print all doctors information
5. Print all patients information
6. Display specific doctor data
7. Display specific patient data
8. Print a specific patients bill
9. Exit the program
```

1- Adding a new doctor

```
Please a choose a choice from 1 to 9: 1
Enter Doctors ID: 122
Enter Doctors First Name: Ali
Enter Doctors Last Name: Omar
Enter Doctors Phone Number: 05877772
Enter Doctors Email: Omar@gmail.com
Enter Doctors Salary: 3000
Enter Doctors Rank: 6
Enter Doctors Specialty: Pharmacist
Success : new Doctor's added Successfully.

Please Enter a number of your choice (enter 9 to exit)
-----
1. Add a doctor
2. Add a service
3. Add a patient
4. Print all doctors information
5. Print all patients information
6. Display specific doctor data
7. Display specific patient data
8. Print a specific patients bill
9. Exit the program

Please a choose a choice from 1 to 9: |
```

When the user enter an id of an existing doctor

```
Please a choose a choice from 1 to 9: 1
Enter Doctors ID: 13
Error : Duplicated unique ID !!
```

2- Adding a new service

```
Please a choose a choice from 1 to 9: 2
Enter Services ID:
224
Enter Services name:
Checking
Enter Services Price:
80
Success: you added a new service successfully

Please Enter a number of your choice (enter 9 to exit)
-----
1. Add a doctor
2. Add a service
3. Add a patient
4. Print all doctors information
5. Print all patients information
6. Display specific doctor data
7. Display specific patient data
8. Print a specific patients bill
9. Exit the program

Please a choose a choice from 1 to 9:
```

When the user attempts to add a new service with an existing service id (DuplicateServiceIdException will be thrown)

```
Please a choose a choice from 1 to 9: 2
Enter Services ID:
123
Exception in thread "main" Project2.DuplicateServiceIdException: Invalid service ID. This service ID is already utilized
    at Project2.HospitalSystem.AddService(HospitalSystem.java:158)
    at Project2.HospitalMain.main(HospitalMain.java:34)
Java Result: 1
```

3- Adding a new patient

```
Please a choose a choice from 1 to 9: 3
Enter your Unique ID:
2
Enter your first name :
ammar
Enter your last name :
ali
Choose your type's number :
1-A
2-B
3-C
1
Enter your phone number :
053587979
Enter your email address :
afd@email.com
Enter your doctor's unique ID :
11
Enter the unique ID for the service that you want to get
1
1- Add another service
2- Finish
2
Success : Patient's Account Is Created Successfully.

Please Enter a number of your choice (enter 9 to exit)
```

When the user enter an id service of a service that he already has

```
Enter your doctor's unique ID :
11
Enter the unique ID for the service that you want to get
111
1- Add another service
2- Finish
1
Enter the unique ID for the service that you want to get :
111
Success : Patient's Account Is Created Successfully.
1- Add another service
2- Finish
Error : You already have this service
```

When the user enter an id service that does not exist

```
Enter the unique ID for the service that you want to get
12
Error : This Service is not found !!
```

When the user enter a doctor id that does not exist

```
Enter your phone number :
05698789
Enter your email address :
amir@gmail.com
Enter your doctor's unique ID :
15
Error : This doctor is not found !!
```

When the user enter an invalid number

```
--
Enter the unique ID for the service that you want to get
12
1- Add another service
2- Finish
3
Error : Wrong Option !!
```

When the user enter an id of an existing patient

```
Please a choose a choice from 1 to 9: 3
Enter your Unique ID:
123
Error : Duplicated unique ID !!
```


4- Printing all doctors information

Please a choose a choice from 1 to 9: 4
Doctor Mohammed adnan information :
Full name : Mohammed adnan
Unique ID : 11
Phone Number : 057855
Email Address : moha@gmail.com
Rank : specialist Specialty : Medical laboratory
Salary : 50000.0 SAR

Doctor Mohammed Ahmed information :
Full name : Mohammed Ahmed
Unique ID : 12
Phone Number : 057855
Email Address : moha@gmail.com
Rank : Technician Specialty : dentist
Salary : 25000.0 SAR

Doctor Ali Omar information :
Full name : Ali Omar
Unique ID : 122
Phone Number : 05877772
Email Address : Omar@gmail.com
Rank : 6 Specialty : Pharmacist
Salary : 3000.0 SAR

Success : Doctors Information Is Displayed Successfully

Please Enter a number of your choice (enter 9 to exit)

-
1. Add a doctor
 2. Add a service
 3. Add a patient
 4. Print all doctors information
 5. Print all patients information
 6. Display specific doctor data
 7. Display specific patient data
 8. Print a specific patients bill
 9. Exit the program

Please a choose a choice from 1 to 9:

5- Printing all patients information

Please a choose a choice from 1 to 9: 5
Patient ammar fall's Information :
Full Name : ammar fall
Unique ID : 123
Phone Number : 05678231
Email Address : ammar@gmail.com
Type : A
Patient's Doctor : Mohammed adnan Rank : specialist Speciality : Medical laboratory
Patient's Services : 1- checking

Patient ali faris's Information :
Full Name : ali faris
Unique ID : 321
Phone Number : 055612
Email Address : ali@gmail.com
Type : B
Patient's Doctor : Mohammed Ahmed Rank : Technician Speciality : dentist
Patient's Services : 1- checking 2- x-ray

Success : Patients Information Is Displayed Successfully

Please Enter a number of your choice (enter 9 to exit)

-
1. Add a doctor
 2. Add a service
 3. Add a patient
 4. Print all doctors information
 5. Print all patients information
 6. Display specific doctor data
 7. Display specific patient data
 8. Print a specific patients bill
 9. Exit the program

6- Displaying a specific doctor data

```
Please a choose a choice from 1 to 9: 6
Enter doctor's unique ID
11
Doctor Mohammed adnan information :
Full name : Mohammed adnan
Unique ID : 11
Phone Number : 057855
Email Address : moha@gmail.com
Rank : specialist      Specialty : Medical laboratory
Salary : 50000.0 SAR
-----
Success : Doctor's Information Is Displayed Successfully

Please Enter a number of your choice (enter 9 to exit)
-----
1. Add a doctor
2. Add a service
3. Add a patient
4. Print all doctors information
5. Print all patients information
6. Display specific doctor data
7. Display specific patient data
8. Print a specific patients bill
9. Exit the program

Please a choose a choice from 1 to 9: |
```

When the user enter a doctor's id that does not exist

```
Please a choose a choice from 1 to 9: 6
Enter doctor's unique ID
23

Please Enter a number of your choice (enter 9 to exit)
-----
1. Add a doctor
2. Add a service
3. Add a patient
4. Print all doctors information
5. Print all patients information
6. Display specific doctor data
7. Display specific patient data
8. Print a specific patients bill
9. Exit the program

Error : Doctor is not found !!
Please a choose a choice from 1 to 9:
```

7- Displaying a specific patient data

Please a choose a choice from 1 to 9: 7

Enter patient's unique ID

12

Patient ammar fall's Information :

Full Name : ammar fall

Unique ID : 12

Phone Number : 0568923

Email Address : ammar@gmail.com

Type : A

Patient's Doctor : Mohammed adnan

Rank : specialist

Speciality : Medical laboratory

Patient's Services : 1- checking

Success : Patient's Information Is Displayed Successfully

Please Enter a number of your choice (enter 9 to exit)

-
1. Add a doctor
 2. Add a service
 3. Add a patient
 4. Print all doctors information
 5. Print all patients information
 6. Display specific doctor data
 7. Display specific patient data
 8. Print a specific patients bill
 9. Exit the program

Please a choose a choice from 1 to 9:

8- Printing a specific patients bill

Please a choose a choice from 1 to 9: 8

Enter patient's unique ID

321

Your Bill Details :

Service Name : checking Service ID : 111

Service Price : \$80.0

Service Name : x-ray Service ID : 112

Service Price : \$170.0

You are from type : B

Total Price : \$ 250.0

Success : Patient's Bill Is Displayed Successfully

Please Enter a number of your choice (enter 9 to exit)

-
1. Add a doctor
 2. Add a service
 3. Add a patient
 4. Print all doctors information
 5. Print all patients information
 6. Display specific doctor data
 7. Display specific patient data
 8. Print a specific patients bill
 9. Exit the program

Please a choose a choice from 1 to 9:

8- Printing a specific patients bill of type A

```
Please a choose a choice from 1 to 9: 8
Enter patient's unique ID
123
Your Bill Details :
Service Name : physical therapy Service ID : 1 Service Price : $320.0
Service Name : x-ray Service ID : 2 Service Price : $170.0
Since you are from type A, you have a 40% discount
Total Price : $ 294.0
Success : Patient's Bill Is Displayed Successfully
```

```
Please Enter a number of your choice (enter 9 to exit)
```

- ```

1. Add a doctor
2. Add a service
3. Add a patient
4. Print all doctors information
5. Print all patients information
6. Display specific doctor data
7. Display specific patient data
8. Print a specific patients bill
9. Exit the program
```

```
Please a choose a choice from 1 to 9:
```

## When the user enter a patients id that does not exist

```
Please a choose a choice from 1 to 9: 8
```

```
Enter patient's unique ID
```

```
3211
```

```
Error : Patient is not found !!
```

```
Please Enter a number of your choice (enter 9 to exit)
```

- ```
-----
1. Add a doctor
2. Add a service
3. Add a patient
4. Print all doctors information
5. Print all patients information
6. Display specific doctor data
7. Display specific patient data
8. Print a specific patients bill
9. Exit the program
```

```
Please a choose a choice from 1 to 9:
```